

Title (en)

Method and device for monitoring printing

Title (de)

Verfahren und Vorrichtung zur Überwachung der Druckqualität

Title (fr)

Procédé et dispositif de contrôle de la qualité de l'impression

Publication

EP 0850763 A1 19980701 (EN)

Application

EP 97203775 A 19971202

Priority

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Abstract (en)

The invention relates to a method for monitoring the quality of a moving web (8) of multicolor print during a printing process, comprising monitoring of the mutual location of the various colors on the basis of marks (21-26) arranged on the web of print and further monitoring the location in longitudinal direction (L) and transversal direction (T) of the web of print (8) in relation to at least one printing press (2, 3, 4, 5). The location of the web of print (8) in relation to the printing press (2, 3, 4, 5) is determined by determining the location of the marks (21-26) in relation to the printing press (2, 3, 4, 5), for instance by recording images (31) of the marks (21-26) from a point (30) that is fixed in relation to the printing press (2, 3, 4, 5), and measuring the location of the marks (21-26) in each recorded image (31). The web of print (8) need not be supported during recording of the image (31). The invention further relates to a device (12) for carrying out these method, comprising means (27) for monitoring the mutual location of the various colors on the basis of marks (21-26) arranged on the web of print (8), and means (28) integrated therewith for monitoring the location in longitudinal and transversal direction (L, T) of the web of print (8) in relation to a printing press (2, 3, 4, 5). The color monitoring means (27) and the location monitoring means (28) comprise image recording means (14) fixedly connected to the printing press (2, 3, 4, 5) and programmable processing and control means (29) connected therewith, said means being arranged for measuring the location of the marks (21-26) in a recorded image (31). The image recording means (14) may be arranged for recording sharp images from various distances (35) from the moving web of print (8), in that they may comprise a telecentric lens (17). <IMAGE>

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Citation (search report)

- [A] US 4932320 A 19900612 - BRUNETTI MICHEL [FR], et al
- [A] DE 3809941 A1 19881006 - KOENIG & BAUER AG [DE]
- [DA] US 5018213 A 19910521 - SIKES DALE R [US]

Cited by

DE102011009791B4; EP2055482A4; EP1266756A3; DE102007055087A1; DE102007028949A1; DE102011009791A1; WO0027638A1; WO2005087494A1; US7040232B2; EP2368711A1; WO2011117365A1; EP1980516A2

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